## **IN THE CLAIMS**

Please amend the claims to read as follows:

- 1. (Currently amended) A method for removing acrolein from a process stream comprising
  - (a) providing a process stream comprising acrolein; and
  - (b) reacting said acrolein in the presence of an acid catalyst with a scavenger compound containing a reactable hydroxyl moiety selected from the group consisting of alcohols, diols, glycerol, polyols, phenols, hydroxyl acids, hydroxyl nitriles and hydroxyl esters having a solubility of at least 1% in the process stream to form an acrolein derivative in a refined process stream.
- 2. (Original) The method of claim 1 wherein said acid catalyst is a solid acid catalyst.
- 3. (Original) The method of claim1 wherein said process stream further comprises said acid catalyst.
- 4. (Original) The method of claim 1 further comprising adding said acid catalyst to said process stream prior to said reaction step (b).
- 5. (Original) The method of claim 1 wherein said reaction step (b) is conducted at a pH of between 3.0 and 7.0.
- 6. (Original) The method of claim 4 wherein said acid catalyst is selected from the group consisting of glycolic acid and acetic acid.
- 7. Cancelled.

- 8. (Previously amended) The method claim 1 wherein said process stream further comprises water.
- 9. (Original) The method of claim 8 wherein said process stream includes 2.0 % to 3.0% by weight water at commencement of said reaction step (b).
- 10. (Original) The method of claim 9 further comprising the step of reducing the water content of said process stream to no more than 0.5% water.
- 11. (Original) The method of claim 1 wherein said acrolein derivative is an acrolein acetal.
- 12. Cancelled.
- 13. Cancelled.
- 14. Cancelled.
- 15. (Original) The method of claim 1 further comprising separating said acrolein derivative from said refined process stream.
- 16. (Original) The method of claim 15 comprising distillation of said refined process stream.
- 17. (Original) The method of claim 1 wherein said process stream further comprises acrylontirile.
- 18. (Original) The method of claim 1 wherein said reacting step is performed in the substantial absence of a cyanide compound.

- 19. (Original) The method of claim 1 wherein said process stream further comprises acrylic acid.
- 20. (Currently amended) A method for removing acrolein from a process stream comprising
  - (a) providing a process stream comprising acrolein; and
  - (b) reacting said acrolein with a scavenger compound containing a reactable hydroxyl moiety selected from the group consisting of alcohols, diols, glycerol, polyols, phenols, hydroxyl acids, hydroxyl nitriles and hydroxyl esters having a solubility of at least 1% in the process stream at a pH of between 3.0 and 7.0 to form an acrolein derivative in a refined process stream.
- 21. (Currently Amended) A method for removing acrolein from an acrylonitrile process stream <u>containing acrolein</u> comprising
  - (a) providing an acrylontirile process stream comprising acrolein; and
  - (b) reacting said acrolein in the presence of an acid catalyst with a scavenger compound containing a reactable thiol or hydroxyl moiety to form an acrolein derivative in a refined process stream.
- 22. (Previously presented) The method of claim 21 wherein said acid catalyst is a solid acid catalyst.
- 23. (Previously presented) The method of claim 21 wherein said process stream further comprises said acid catalyst.
- 24. (Previously presented) The method of claim 21 further comprising adding said acid catalyst to said process stream prior to said reaction step (b).
- 25. (Previously presented) The method of claim 24 wherein said acid catalyst is selected from the group consisting of glycolic acid and acetic acid.

- 26. (Previously presented) The method of claim 21 wherein said process stream further comprises water.
- 27. (Previously presented) The method of claim 26 wherein said process stream includes 2.0 % to 3.0% by weight water at commencement of said reaction step (b).
- 28. (Previously presented) The method of claim 2 further comprising the step of reducing the water content of said process stream to no more than 0.5% water.
- 29. (Previously presented) The method of claim 21 further comprising separating said acrolein derivative from said refined process stream.
- 30. (Previously presented) The method of claim 29 comprising distillation of said refined process stream.
- 31. (Previously presented) The method of claim 21 wherein said reaction step (b) is conducted at a pH of between 3.0 and 7.0.
- 32. (Previously presented) The method of claim 21 wherein said acrolein derivative is an acrolein acetal.
- 33. (Previously presented) The method of claim 21 wherein said scavenger compound contains a reactable thiol moiety.
- 34. (Previously presented) The method of claim 33 wherein said scavenger compound is selected from the group consisting of mercaptoacetic acid, 2-mercaptoethanol, 2aminoethanethiol and ethylene glycol bisthioglycolate.
- 35. (Previously presented) The method of claim 21 wherein said acrolein derivative is an acrolein thioacetal.

- 36. (Previously presented) The method of claim 21 wherein said reacting step is performed in the substantial absence of a cyanide compound.
- 37. (Previously presented) The method of claim 21 wherein said process stream further comprises acrylic acid.
- 38. (Previously presented) The method of claim 21 wherein said scavenger compound contains a reactable hydroxyl moiety.
- 39. (Previously presented) A method of removing acrolein from an acrylontirile process stream comprising
  - (a) providing an acrylontirile process stream comprising acrolein; and
- (b) reacting said acrolein with a scavenger compound containing a reactable thiol or hydroxyl moiety of a pH of between 3.0 and 7.0 to form an acrolein derivative in a refined process stream.